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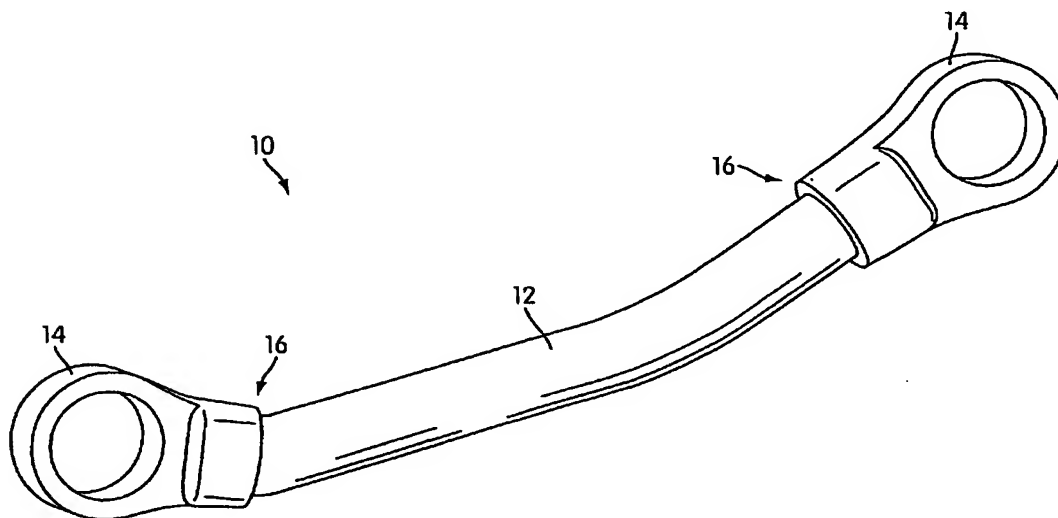
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(54) Title: HYBRID COMPONENT



(57) Abstract: A hybrid component for lightweight, structural uses, including a steel member formed of a high strength steel; and a cast coupling member cast on a portion of the steel member by casting-in-place a semi-solid aluminum about the portion of the steel member, thereby positively and rigidly securing the coupling member to the steel member. A method of forming a hybrid component for lightweight, structural uses, including: forming a steel member formed of a high strength steel into a predetermined configuration; and casting a coupling member on a portion of the steel member by casting-in-place a semi-solid aluminum about the portion of the steel member, thereby positively and rigidly securing the coupling member to the steel member.

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